

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-5. canceled.

6. (currently amended): A level converting circuit for converting a signal level of a first logic circuit to which a first power source is supplied into a signal level of a second logic circuit to which a second power source is supplied, ~~characterized by including~~ comprising:

a pull-up and/or pull-down circuit in which the second power source is supplied to a level conversion output of a level conversion core circuit,

a control circuit to which the second power source is supplied and which receives as inputs thereto a level conversion input signal and the level conversion output signal,

and a switching circuit which is disposed between a power source terminal of the level conversion core circuit and the second power source and which is controlled by a third logic circuit, the third ~~to~~ logic circuit generating a control signal under control of the first power source, wherein the control circuit is controlled by a control signal from the third logic circuit.

7. (currently amended): A level converting circuit in accordance with claim 6, ~~characterized in that~~ wherein the third logic circuit controls the control circuit by a control signal from the third logic circuit, and the control circuit produces control signals to control the pull-up and/or pull-down circuit and the level conversion core circuit.

8-14. canceled.

15. (currently amended): A level converting circuit in accordance with claim 7, ~~characterized in that~~ wherein the control circuit comprises a NAND circuit to which the second power source is supplied and which receives as inputs thereto a positively inverted signal of the level conversion input signal, an inverted signal of the level conversion output signal, a positively inverted signal of the level conversion output signal, and a control output of the third logic circuit, wherein an output signal of the NAND circuit is produced to control a signal.

16. (currently amended): A level converting circuit in accordance with claim 15, ~~characterized in that~~ wherein the NAND circuit is of a CMOS circuit configuration and the p-MOS transistor to which the level conversion input signal is connected includes a transistor at least having a small ratio of a channel width/a channel length or a high threshold value.

17. (currently amended): A level converting circuit in accordance with claim 15, ~~characterized in that~~ wherein the NAND circuit is of a CMOS circuit configuration and the n-MOS transistor to which a control signal output of the third logic circuit is connected includes a source terminal connected to a GND power source.

18. (canceled).

19. (currently amended): A level converting circuit in accordance with claim 15, ~~characterized in that~~ wherein the pull-up and/or pull-down circuit further ~~includes~~ comprises at least two ~~p-MOS~~ p-MOSs each of which ~~includes~~ comprises a source terminal connected to the second power source and a gate terminal connected to a control signal from the control circuit, a drain terminal of other pMOS being connected to each of the level conversion outputs; and ~~additionally~~ at least two ~~p-MOS~~ p-MOSs each of which ~~includes~~ comprises a source terminal connected to the second power source and a gate terminal connected to a control signal from the third logic circuit, a drain terminal of other p-MOS being connected to each of the level conversion outputs.

20. (currently amended): A level converting circuit in accordance with claim 15, ~~characterized in that~~ wherein the pull-up and/or pull-down circuit further ~~includes~~ comprises at least two ~~p-MOS~~ p-MOSs each of which ~~includes~~ comprises a source terminal connected to the second power source, a gate terminal connected to a control signal from the control circuit, and a drain terminal connected to each of the level conversion outputs; and ~~additionally~~ a p-MOS ~~including~~ comprising a source terminal connected to the second power source, a gate terminal connected to a control signal from the third logic circuit, and a drain terminal connected to one of the level conversion outputs.

21. (currently amended): A level converting circuit in accordance with claim 15, ~~characterized in that~~ wherein the pull-up and/or pull-down circuit ~~includes~~ comprises at least two ~~p-NIOS~~ p-MOSs each of which ~~includes~~ comprises a source terminal connected to the second

power source, a gate terminal connected to a control signal from the control circuit, and a drain terminal connected to each of the level conversion outputs; ~~additionally~~ a p-MOS ~~including~~ comprising a source terminal connected to the second power source, a gate terminal connected to a control signal from the third logic circuit, and a drain terminal connected to one of the level conversion outputs; and

~~additionally~~ an n-MOS including a source terminal connected to the GND power source, a gate terminal connected to a control signal from the third logic circuit or to an inverted signal of the control signal, and a drain terminal connected to other one of the level conversion outputs.

22. (currently amended): A level shifter in accordance with claim ~~18~~ 15, ~~characterized in that~~ wherein the pull-up and/or pull-down circuit ~~includes~~ comprises at least two p-MOSs each of which ~~includes~~ comprises a source terminal connected to the second power source, a gate terminal connected to a control signal from the control circuit, and a drain terminal connected to each of the level shift outputs; and ~~additionally~~ an n-MOS ~~including~~ comprising a source terminal connected to the GND power source, a gate terminal connected to a control signal from the third logic circuit or an inverted signal of the control signal, and a drain terminal connected to one of the level shift outputs.

23. canceled.

24. (currently amended): A level shifter in accordance with claim ~~18~~ 15, ~~characterized in that~~ wherein the pull-up and/or pull-down circuit ~~includes~~ comprises at least two

n-MOSs each of which ~~includes~~ comprises a source terminal connected to the GND power source, a gate terminal connected to a control signal from the control circuit, and a drain terminal connected to the level shift outputs and ~~additionally~~ at least two p-MOSs each of which ~~includes~~ comprises a source terminal connected to the second power source and a gate terminal connected to a control signal from the third logic circuit, a drain terminal of other p-MOS being connected to each of the level shift outputs.

25-66. canceled.

67. (new): A level converting circuit in accordance with claim 6, further comprising a switch circuit disposed between a GND terminal and a GND power source of the level conversion core circuit.

68. (new): A level converting circuit for converting a signal level of a first logic circuit to which a first power source is supplied into a signal level of a second logic circuit to which a second power source is supplied, comprising:

a level conversion core circuit in which the second power source is supplied and which receives as an input a level conversion input signal and which outputs a level conversion output signal;

a control circuit to which the second power source is supplied and which receives a control signal from a third logic circuit and which outputs control signals; and

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pull-up and/or pull-down circuit in which the second power source is supplied and which receives the control signals from the control circuit and a control signal from the third logic circuit and which connects an output to a level shift output.